

Amendment to the Claims:

This listing will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A film of a multimodal polyethylene produced by polymerization catalysed by a single site catalyst having more than one η^5 -cyclic ligand and said multimodal polyethylene comprising as comonomers to ethylene at least two C₄₋₁₂ alpha-olefins.

ai) a lower molecular weight homopolymer of ethylene and

bi) a higher molecular weight terpolymer of ethylene and two comonomers selected from C₄ to C₁₂ alpha-olefins.

or

aii) a lower molecular weight polymer which is a binary copolymer of ethylene and a comonomer selected from C₄ to C₁₂ alpha-olefin and

bii) a higher molecular weight polymer which is either a binary copolymer of ethylene and a C₄ to C₁₂ alpha-olefin comonomer different from the comonomer employed in aii) or a terpolymer with two comonomers selected from C₄ to C₁₂ alpha-olefins;

or

aiii) a lower molecular weight terpolymer of ethylene and two comonomers selected from C₄ to C₁₂ alpha-olefins.

biii) a higher molecular weight terpolymer of ethylene and two comonomers

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selected from C₄ to C₁₂ alpha-olefins;

wherein all components are made by the same catalyst.

Claim 2. (previously presented) A film as claimed in claim 1 wherein said comonomers are selected from the group consisting of: but-1-ene, hex-1-ene, 4-methyl-pent-1-ene, hept-1-ene, oct-1-ene and dec-1-ene.

Claim 3. (original) A film as claimed in claim 2 wherein said comonomers are but-1-ene and hex-1-ene.

Claim 4. (previously presented) A film as claimed in claim 1 wherein said polyethylene is a bimodal polyethylene wherein the lower molecular weight component constitutes from 30 to 70% wt of the polyethylene.

Claim 5. (previously presented) A film as claimed in claim 1 wherein the comonomer content of said polyethylene is 0.1 to 10% mol.

Claim 6. (previously presented) A film as claimed in claim 1 wherein the density of said polyethylene is from 905 to 930 kg/m³.

Claim 7. (previously presented) A film as claimed in claim 1 wherein the weight average molecular weight of said polyethylene is 50000 to 250000 g/mol.

Claim 8. (previously presented) A film as claimed in claim 1 wherein the molecular weight distribution of said polyethylene is from 3 to 8.

Claim 9. (previously presented) A film as claimed in claim 1 wherein the MFR₂ of said polyethylene is 0.4 to 3 g/10 min.

Claim 10. (previously presented) A film as claimed in claim 1 wherein said polyethylene is blended with a further polymer.

Claim 11. (original) A film as claimed in claim 10 wherein said further polymer is a

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low density polyethylene (LDPE).

Claim 12. (previously presented) A film as claimed in claim 1 comprising a plurality of layers.

Claim 13. (previously presented) A film as claimed in claim 1 produced by extrusion using a blow up ratio of from 2:1 to 4:1.

Claims 14-22. (canceled)

-- Claim 23. (new) A film as claimed in claim 1 wherein said bimodal polyethylene comprises

- aii) a lower molecular weight polymer which is a binary copolymer of ethylene and a comonomer selected from C₄ to C₁₂ alpha-olefin and
- bii) a higher molecular weight polymer which is either a binary copolymer of ethylene and 1-butene, if the lower molecular weight polymer of aii) is a binary copolymer of ethylene and a C₆ to C₁₂ alpha-olefin, or a terpolymer of ethylene, 1-butene and a comonomer selected from C₆ to C₁₂ alpha-olefin.

Claim 24. (new) A polyethylene composition for film production, said composition comprising a multimodal polyethylene produced by polymerization catalysed by a single site catalyst having more than one η^5 -cyclic ligand comprising

- ai) a lower molecular weight homopolymer of ethylene and
- bi) a higher molecular weight terpolymer of ethylene and two comonomers selected from C₄ to C₁₂ alpha-olefins,

or

- aii) a lower molecular weight polymer which is a binary copolymer of

ethylene and a comonomer selected from C₄ to C₁₂ alpha-olefin and

- bii) a higher molecular weight polymer which is either a binary copolymer of ethylene and a C₄ to C₁₂ alpha-olefin comonomer different from the comonomer employed in aii) or a terpolymer and two comonomers selected from C₄ to C₁₂ alpha-olefins;

or

- aiii)a lower molecular weight terpolymer of

ethylene and two comonomers selected from C₄

to C₁₂ alpha-olefins,

- biii)a higher molecular weight terpolymer of ethylene and two comonomers selected from C₄ to C₁₂ alpha-olefins;

wherein all components are made by the same catalyst.

Claim 25. (new) A composition as claimed in claim 24 wherein said comonomers are selected from the group consisting of: but-1-ene, hex-1-ene, 4-methyl-pent-1-ene, hept-1-ene, oct-1-ene and dec-1-ene.

Claim 26. (new) A composition as claimed in claim 25 comprising a blend of said polyethylene and a further polymer.

Claim 27. (new) A compositions as claimed in claim 26 wherein said further polymer is a low density polyethylene (LDPE).

Claim 28. (new) A product packaged within a heat-sealed film of a multimodal polyethylene produced by polymerization catalysed by a single site catalyst having more than one η^5 -cyclic ligand comprising

- ai) a lower molecular weight homopolymer of ethylene and
- bi) a higher molecular weight terpolymer of ethylene and two comonomers selected from C₄ to C₁₂ alpha-olefins,

or

- aii) a lower molecular weight polymer which is a binary copolymer of ethylene and a comonomer selected from C₄ to C₁₂ alpha-olefin and
- bii) a higher molecular weight polymer which is either a binary copolymer of ethylene and a C₄ to C₁₂ alpha-olefin comonomer different from the comonomer employed in aii) or a terpolymer and two comonomers selected from C₄ to C₁₂ alpha-olefins;

or

- aiii)a lower molecular weight terpolymer of ethylene and two comonomers selected from C₄ to C₁₂ alpha-olefins,
- biia) a higher molecular weight terpolymer of ethylene with two comonomers selected from C₄ to C₁₂ alpha-olefins;

wherein all components are made by the same catalyst.

Claim 29. (new) A product as claimed in claim 28 wherein said comonomers are selected from the group consisting of: but-1-ene, hex-1-ene, 4-methyl-pent-1-ene, hept-1-ene, oct-1-ene and dec-1-ene.

Claim 30. (new) A product as claimed in claim 28 being a packaged foodstuff or liquid. --